

=> d his

(FILE 'HOME' ENTERED AT 10:19:19 ON 16 MAY 2005)

FILE 'HCAPLUS' ENTERED AT 10:19:24 ON 16 MAY 2005

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L1          E MARTIN N M/AU
            2 S E3
L2          E MARTIN NIALL/AU
            17 S E3-E5
L3          E SMITH G C/AU
            3 S E4
L4          E SMITH GRAEME/AU
            76 S E3 OR E7-E11
L5          E WHITE C/AU
            31 S E39 OR E113 OR E143 OR E145
L6          E NEWTON R/AU
            178 S E9 OR E67 OR E68
L7          E DOUGLAS D/AU
            10 S E9 OR E48
L8          E EVERSLEY P/AU
            4 S E4 OR E5
L9          19 S VILE J?/AU
L10         311 S L1-L9
L11         5 S L10 AND PHTHALAZINONE?

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FILE 'REGISTRY' ENTERED AT 10:35:41 ON 16 MAY 2005

ACTIVATE WAR506PAR/Q

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L12         -----
            STR
            -----
            ACTIVATE WAR506FUL/A
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L13         STR
L14         801 SEA FILE=REGISTRY SSS FUL L13
            -----
            ACTIVATE WAR506CHI1/Q
            -----
L15         STR
            -----
L16         STR L15
            SAVE TEMP L16 WAR506CHI1/Q
L17         41 S L16 SAM SUB=L14
L18         786 S L16 FUL SUB=L14

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FILE 'HCAPLUS' ENTERED AT 11:00:09 ON 16 MAY 2005

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L19         4 S L14 AND (L10 OR L11)
            SELECT L19 RN 1-4

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FILE 'REGISTRY' ENTERED AT 11:19:15 ON 16 MAY 2005

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L20         673 S E1-E673
L21         191 S L18 NOT L20
L22         595 S L20 AND L18
L23         592 S L22 NOT (32003-14-8 OR 53242-88-9 OR 57835-95-7)

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FILE 'HCAPLUS' ENTERED AT 11:32:30 ON 16 MAY 2005

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L24         7 S L23
L25         4 S L24 AND L19
L26         3 S L24 NOT L25

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FILE 'REGISTRY' ENTERED AT 11:35:13 ON 16 MAY 2005

L27 236 S C12H19N3O3S/MF
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L30 249 S C25H22N4O5/MF
L31 334 S C23H19N3O5S/MF
L32 191 S C24H19N5O2/MF
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L34 16 S C25H18F3N3O4/MF
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L39 3 S C23H15F2N5O2/MF
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L41 396 S C22H17N3O5/MF
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L55 888 S C24H26N4O2/MF
L56 206 S C23H19N5O4/MF
L57 693 S C21H17N3O3S/MF
L58 524 S C16H12N4O/MF
L59 769 S C25H29N3O4/MF
L60 12 S C24H16F3N5O2/MF
L61 1611 S C17H15N3O3/MF
L62 878 S C19H16N4O2/MF
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L64 170 S C24H19N5O3/MF
L65 39 S L21 AND (L27-L64)

FILE 'HCAPLUS' ENTERED AT 12:51:24 ON 16 MAY 2005

L66 8 S L65
L67 5 S L66 NOT PY>=2000

=> d ibib abs l11 1-5

L11 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:331915 HCAPLUS

TITLE: **Phthalazinones**. Part 1: the design and
synthesis of a novel series of potent inhibitors of
poly(ADP-ribose)polymerase

AUTHOR(S): Loh, Vincent M.; Cockcroft, Xiao-Ling; Dillon,
Krystyna J.; Dixon, Lesley; Drzewiecki, Jan;
Eversley, Penny J.; Gomez, Sylvie; Hoare,
Janet; Kerrigan, Frank; Matthews, Ian T. W.; Menear,
Keith A.; **Martin, Niall M. B.**; **Newton,**
Roger F.; Paul, Jane; **Smith, Graeme C. M.**
; **Vile, Julia**; Whittle, Alan J.

CORPORATE SOURCE: KuDOS Horsham Ltd, Horsham, West Sussex, RH13 5PX, UK
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005),

15(9), 2235-2238

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Screening of the Maybridge compound collection identified 4-arylphthalazinones as micromolar inhibitors of PARP-1 catalytic activity. Subsequent optimization of both inhibitory activity and metabolic stability led to a novel series of meta-substituted 4-benzyl-2H-phthalazin-1-ones with low nanomolar, cellular activity as PARP-1 inhibitors and promising metabolic stability in vitro.

L11 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:238692 HCAPLUS

DOCUMENT NUMBER: 142:316849

TITLE: Preparation of **phthalazinones** as PARP inhibitors

INVENTOR(S): **Martin, Niall Morrison Barr; Smith, Graeme Cameron;** Jackson, Stephen Philip; Loh, Vincent M., Jr.; Cockcroft, Xiao-Ling Fan; Matthews, Ian Timothy Williams; Menear, Keith Allan; Kerrigan, Frank; Ashworth, Alan

PATENT ASSIGNEE(S): Kudos Pharmaceuticals Limited, UK; Maybridge Limited
SOURCE: U.S. Pat. Appl. Publ., 67 pp., Cont.-in-part of U.S. Ser. No. 799,154.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

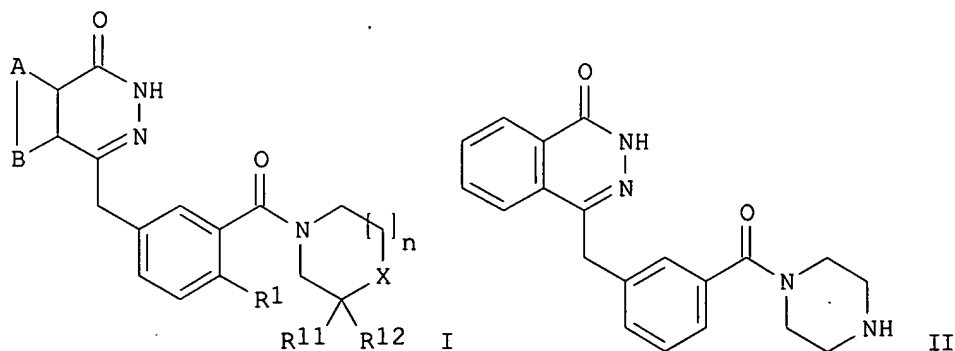
English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005059663	A1	20050317	US 2004-876080	20040624
PRIORITY APPLN. INFO.:			GB 2003-5681	A 20030312
			US 2003-454995P	P 20030314
			US 2003-493399P	P 20030806
			US 2003-526244P	P 20031201
			US 2004-799154	A2 20040312

GI



AB The title compds. [I; A and B together represent (un)substituted fused aromatic ring; X = NR_x or CR_xR_y; if X = NR_x then n = 1 or 2 and if X = CR_xR_y then n = 1; R_x = H, (un)substituted C1-20 alkyl, C5-20 aryl, C3-20 heterocyclyl, amido, thioamido, ester, acyl, and sulfonyl groups; R_y = H, OH, NH₂; or R_x and R_y may together form a spiro(C3-7)cycloalkyl or heterocyclyl group; R11 and R12 are both H, or when X = CR_xR_y, R11, R12, R_x and R_y, together with the carbon atoms to which they are attached, may form (un)substituted fused aromatic ring; R1 = H, halo], were prepared Thus, reacting 3-(4-oxo-3,4-dihydrophthalazin-1-ylmethyl)benzoic acid (preparation given) with tert-Bu 1-piperazinecarboxylate afforded 77% II which had IC50 of < 0.02 μ M against PARP. All compds. I tested had a IC50 of < 0.1 μ M in the PARP assay. The pharmaceutical composition comprising the compound I is claimed.

L11 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:780675 HCAPLUS

DOCUMENT NUMBER: 141:296034

TITLE: Preparation of **phthalazinones** as PARP inhibitors

INVENTOR(S): **Martin, Niall Morrison Barr; Smith, Graeme Cameron Murray;** Jackson, Stephen Philip; Loh, Vincent M., Jr.; Cockcroft, Xiao-Ling Fan; Matthews, Ian Timothy Williams; Menear, Keith Allan; Kerrigan, Frank; Ashworth, Alan

PATENT ASSIGNEE(S): Kudos Pharmaceuticals Limited, UK; Maybridge Limited

SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

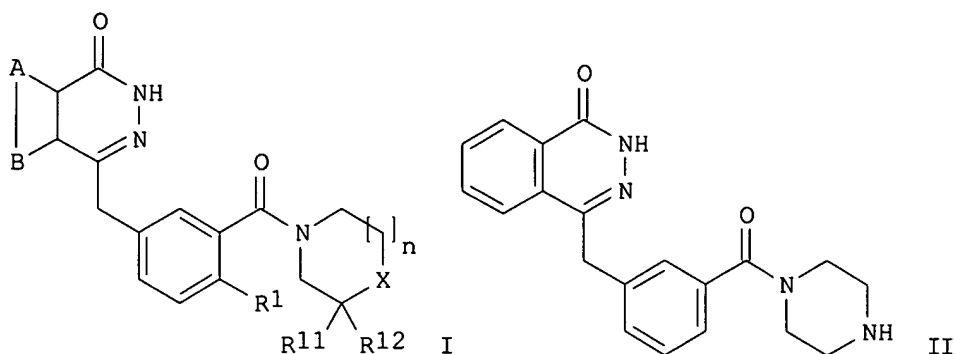
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080976	A1	20040923	WO 2004-GB1059	20040312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: GB 2003-5681 A 20030312
 US 2003-454995P P 20030314
 US 2003-493399P P 20030806
 US 2003-526244P P 20031201

OTHER SOURCE(S): MARPAT 141:296034
 GI



AB The title compds. [I; A and B together represent (un)substituted fused aromatic ring; X = NR_x or CR_xR_y; if X = NR_x then n = 1 or 2 and if X = CR_xR_y then n = 1; R_x = H, (un)substituted C1-20 alkyl, C5-20 aryl, C3-20 heterocyclyl, amido, thioamido, ester, acyl, and sulfonyl groups; R_y = H, OH, NH₂; or R_x and R_y may together form a spiro(C3-7)cycloalkyl or heterocyclyl group; R₁₁ and R₁₂ are both H, or when X = CR_xR_y, R₁₁, R₁₂, R_x and R_y, together with the carbon atoms to which they are attached, may form (un)substituted fused aromatic ring; R₁ = H, halo], were prepared Thus, reacting 3-(4-oxo-3,4-dihydrophthalazin-1-ylmethyl)benzoic acid (preparation given) with tert-Bu 1-piperazinecarboxylate afforded 77% II which had IC₅₀ of < 0.02 μM against PARP. All compds. I tested had a IC₅₀ of < 0.1 μM in the PARP assay. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:892770 HCAPLUS

DOCUMENT NUMBER: 139:381498

TITLE: **Phthalazinone** derivatives useful as inhibitors of PARP (i.e., poly(ADP-ribose) polymerase) and their preparation, pharmaceutical compositions, and use, e.g., as potentiators in the treatment of cancer

INVENTOR(S): **Martin, Niall Morrison Barr; Smith, Graeme Cameron Murray; Eversley, Penny Jane; Cockcroft, Xiao-Ling Fan; Kerrigan, Frank; Hoare, Janet; Dixon, Lesley**

PATENT ASSIGNEE(S): Kudos Pharmaceuticals Limited, UK; Maybridge PLC

SOURCE: PCT Int. Appl., 131 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

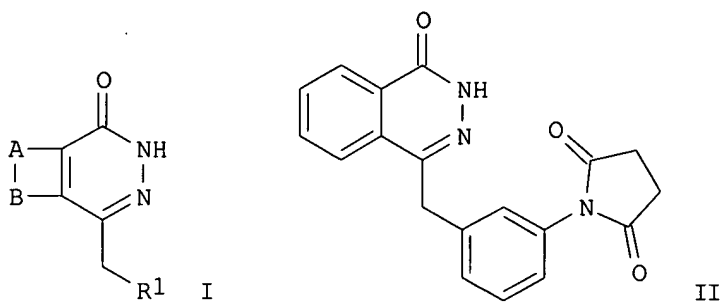
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093261	A1	20031113	WO 2003-GB1817	20030429
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				

PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
 TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2482806 AA 20031113 CA 2003-2482806 20030429
 US 2004023968 A1 20040205 US 2003-426147 20030429
 EP 1501822 A1 20050202 EP 2003-722792 20030429
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRIORITY APPLN. INFO.: US 2002-376497P P 20020430
 WO 2003-GB1817 W 20030429
 OTHER SOURCE(S): MARPAT 139:381498
 GI



AB Title compds. I and their isomers, salts, solvates, chemical protected forms, and prodrugs thereof, are useful as pharmaceuticals, in particular, for the treatment of diseases ameliorated by inhibiting the activity of PARP, i.e., poly(ADP-ribose) polymerase [wherein: A and B together = optionally substituted, fused aromatic ring; R1 = C5-7 aryl group substituted in the meta position by the group R2, and optionally further substituted; R2 = 5- or 6-membered lactams or cyclic ureas, bound at the amide N, or 5- or 6-membered cyclic imides, including piperazine-2,6-diones, bound at the imide N]. I are claimed as useful for therapy, in human or animals, and particularly for 3 cases: (1) inhibiting the activity of PARP, preferably to maximize DNA repair inhibition; (2) in treatment of a variety of disorders, including cardiovascular conditions, ischemia, neurotoxicity, and inflammation; and (3) as an adjunct in cancer therapy, or for potentiating tumor cells for treatment with ionizing radiation or chemotherapeutics. Examples include 43 preps. of specific compds. I. For instance, phthalide was cyclocondensed with 3-nitrobenzaldehyde to give 2-(3-nitrophenyl)indan-1,3-dione, which was re-cyclized with hydrazine to give 4-(3-aminobenzyl)-2H-phthalazin-1-one. This amine was cyclized with succinic anhydride in refluxing acetic acid to give invention compound II, a preferred compound. In a test for inhibition of HeLa cellular PARP in vitro, II had an IC50 value of < 0.03 μ M, vs. 7.2 μ M for the base structure, 1(2H)-phthalazinone. In a test for potentiation of the alkylating agent Me methanesulfonate (MMS) against HeLa cells in vitro, several compds., including II, had potentiating factors (PF50) of ≥ 1 at 200 nM.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:353439 HCAPLUS

DOCUMENT NUMBER: 136:355242

TITLE: Preparation of **phthalazinones** as PARP inhibitorsINVENTOR(S): **Martin, Niall Morrison Barr; Smith, Graeme Cameron Murray; White, Charles Richard; Newton, Roger Frank; Douglas, Diane Gillian; Eversley, Penny Jane; Vile, Julia**

PATENT ASSIGNEE(S): Kudos Pharmaceuticals Limited, UK; Maybridge PLC

SOURCE: PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

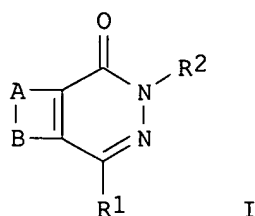
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036576	A1	20020510	WO 2001-GB4729	20011025
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2423279	AA	20020510	CA 2001-2423279	20011025
AU 2001095789	A5	20020515	AU 2001-95789	20011025
EP 1330442	A1	20030730	EP 2001-976521	20011025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
GB 2384776	A1	20030806	GB 2003-9190	20011025
GB 2384776	B2	20040303		
BR 2001015062	A	20040217	BR 2001-15062	20011025
NZ 525138	A	20040326	NZ 2001-525138	20011025
JP 2004513121	T2	20040430	JP 2002-539335	20011025
US 2002183325	A1	20021205	US 2001-21506	20011030
ZA 2003002112	A	20040220	ZA 2003-2112	20030317
NO 2003001498	A	20030402	NO 2003-1498	20030402
PRIORITY APPLN. INFO.:				
			GB 2000-26505	A 20001030
			US 2001-275066P	P 20010312
			US 2000-245662P	P 20001106
			WO 2001-GB4729	W 20011025

OTHER SOURCE(S): MARPAT 136:355242

GI

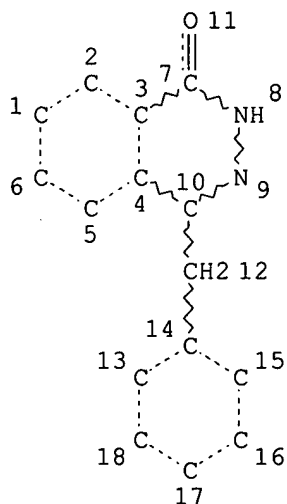


AB The title compds. [I; A and B together represent (un)substituted fused aromatic ring; R1 = LR3 (wherein L = (CH2)_nQm(CH2)_p; n, m, p = 0-3, the sum of n, m and p = 1-3; Q = O, S, NH, CO; R3 = (un)substituted C5-20 aryl); R2 = H, (un)substituted C1-7 alkyl, C3-20 heterocyclyl, C5-20 aryl, etc.], useful for inhibiting the activity of PARP (poly(ADP-ribose)synthase), were prepared. General procedures for synthesis of I were described. Biol. data such as IC50 values against PARP, and DEF which is a ratio of the enhancement of the cell growth inhibition elicited by test compds. in the presence of bleomycin compared to bleomycin alone, were given. E.g., the compound I [AB = benzo; R1 = 4-chlorobenzyl; R2 = H] showed IC50 of 1.8 μ M against PARP, and DEF of 1.9.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d que 167

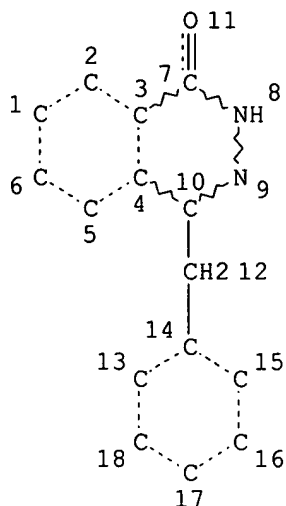
L13 STR



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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
 L14 801 SEA FILE=REGISTRY SSS FUL L13
 L16 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC 13 10
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

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 L20 673 SEA FILE=REGISTRY (119-67-5/BI OR 420846-72-6/BI OR 61260-15-9/
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 763112-42-1/BI OR 763112-43-2/BI OR 763112-44-
 L21 191 SEA FILE=REGISTRY L18 NOT L20

L27 236 SEA FILE=REGISTRY C12H19N3O3S/MF
 L28 1101 SEA FILE=REGISTRY C20H19N3O4/MF
 L29 9 SEA FILE=REGISTRY C24H15F3N4O2/MF
 L30 249 SEA FILE=REGISTRY C25H22N4O5/MF
 L31 334 SEA FILE=REGISTRY C23H19N3O5S/MF
 L32 191 SEA FILE=REGISTRY C24H19N5O2/MF
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 L35 167 SEA FILE=REGISTRY C21H14N4O3/MF
 L36 441 SEA FILE=REGISTRY C25H22N4O4/MF
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 L62 878 SEA FILE=REGISTRY C19H16N4O2/MF
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 L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR L57 OR L58 OR
 L59 OR L60 OR L61 OR L62 OR L63 OR L64))
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 L67 5 SEA FILE=HCAPLUS L66 NOT PY>=2000

← hits corresponding
to claims

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L67 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:149535 HCAPLUS
 DOCUMENT NUMBER: 124:316902
 TITLE: Synthesis of new 5-carboxyphthalimides containing
 sulfonamide moieties with biological interest
 AUTHOR(S): Eyada, H. A.; Khalaf, N. S.; El-Sayed, Ragab A.;
 El-Hakim, M. H.
 CORPORATE SOURCE: Faculty Science, Al-Azhar University, Nasr City, Egypt
 SOURCE: Al-Azhar Journal of Pharmaceutical Sciences (1994),
 14, 33-9
 CODEN: AAJPFT; ISSN: 1110-1644

IT 175980-81-1P 175980-82-2P

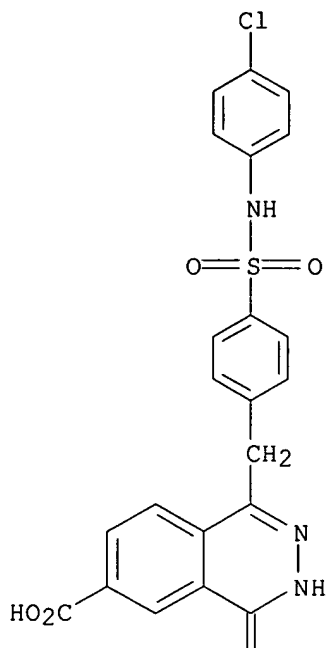
RN 175980-81-1 HCAPLUS

CN	6-Phthalazinecarboxylic acid, 3,4-dihydro-1-[[4-[[[4-methylphenyl]amino]sulfonyl]phenyl]methyl]-4-oxo-	(9CI)	(CA INDEX NAME)
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Cc1ccc(NC(=O)Nc2ccc(cc2)Cc3c[nH]c4c3C(=O)O)cc1
$$\begin{array}{c} \parallel \\ \text{O} \end{array}$$

CN 6-Phthalazinecarboxylic acid, 1-[[4-[[[(4-chlorophenyl)amino]sulfonyl]phenyl]methyl]-3,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

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L67 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:138851 HCAPLUS
 DOCUMENT NUMBER: 124:289404
 TITLE: Synthesis of some new sulfonamides derived from
 tetrachlorophthalimides
 AUTHOR(S): Eyada, H. A.
 CORPORATE SOURCE: Faculty Science, Al-Azhar University, Cairo, Egypt
 SOURCE: Al-Azhar Journal of Pharmaceutical Sciences (1994),
 13, 104-11
 CODEN: AAJPFT; ISSN: 1110-1644
 PUBLISHER: Al-Azhar University, Faculty of Pharmacy
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Condensation of 3,4,5,6-tetrachlorophthalic anhydride with
 RNHSO₂C₆H₄CH₂CO₂H (R = Ph, 4-ClC₆H₄) and sulfa drugs gave
 arylidenephthalides I (R = Ph, 4-ClC₆H₄, X = O) and phthalimides II [R =

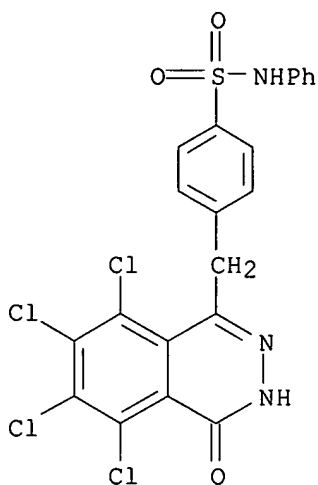
H, C(NH₂):NH, 2-thiazolyl, 2-pyrimidinyl, etc., Z = N], resp. Thionation of I (X = O) produced the thio derivs. I (X = S) (III). Treatment of I (X = O) and III with methanolic sodium methoxide gave indandiones II (R = Ph, 4-ClC₆H₄, Z = CH) and bis(indanone) sulfides, resp. Interaction of I (X = O) with hydrazine hydrate and sulfanilamide furnished pyridazines V and indolones VI, resp.

IT 86355-25-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, bactericidal, and fungicidal activity of sulfonamides)

RN 86355-25-1 HCAPLUS

CN Benzenesulfonamide, N-phenyl-4-[(5,6,7,8-tetrachloro-3,4-dihydro-4-oxo-1-phthalazinyl)methyl]- (9CI) (CA INDEX NAME)



L67 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:453512 HCAPLUS

DOCUMENT NUMBER: 99:53512

TITLE: Action of Grignard reagents on phthalides, phthalimides and related compounds. Part II.

Interaction of tetrachloro-3-(p-N-arylsulfonamidobenzal)phthalides with Grignard reagents, hydrazine hydrate and amines

AUTHOR(S): El-Sharief, A. M. S.; El-Maghraby, A. A.; El-Said, A. S.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(1), 87-90

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 99:53512

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The tetrachlorophthalides I (R = Ph, p-MeC₆H₄), prepared from

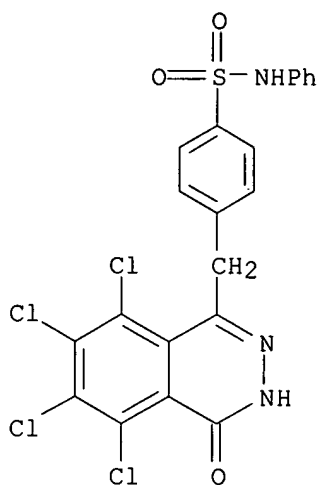
p-(RNHSO₂)C₆H₄CH₂CO₂H and phthalic anhydride, reacted with Grignard reagents to give the diketones II (R₁ = Ph, Pr, Bu) and indones III (R₁ = PhCH₂, Et, Bu). III were also prepared from indandiones and Grignard reagents. I reacted with H₂NNH₂ and amines to give phthalazones IV and phthalimidines V [R₂ = (un)substituted phenyl].

IT 86355-25-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 86355-25-1 HCAPLUS

CN Benzenesulfonamide, N-phenyl-4-[(5,6,7,8-tetrachloro-3,4-dihydro-4-oxo-1-phthalazinyl)methyl]- (9CI) (CA INDEX NAME)



L67 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:462106 HCAPLUS

DOCUMENT NUMBER: 95:62106

TITLE: Action of phosphorus pentasulfide on the products of interaction of p-sulfamoylphenylacetic acids with phthalic anhydride

AUTHOR(S): Islam, A. M.; El-Maghraby, A. A.; El-Sharief, A. M. S.; Aly, F. M. M.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Egyptian Journal of Chemistry (1980), Volume Date 1979, 22(3), 209-22

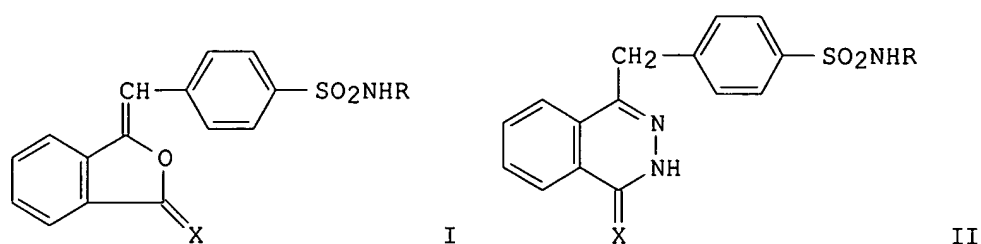
CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 95:62106

GI



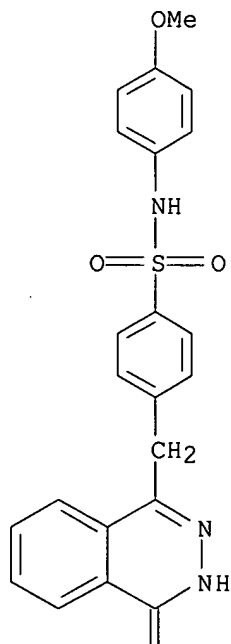
AB Treating sulfamoylarylidene-phthalides I (R = Ph, 2-, 3-, 4-MeC₆H₄, 2-, 4-MeOC₆H₄, 2-, 4-ClC₆H₄, 4-BrC₆H₄; X = O), prepared from 4-RNHSO₂C₆H₄CH₂CO₂H and phthalic anhydride, with P₂O₅ gave 60-70% I (X = S). II (X = S) were similarly prepared from II (X = O), obtained by treating I (X = O) with N₂H₄.

IT 78001-36-2P 78001-37-3P 78298-01-8P
 78298-02-9P 78298-03-0P 78298-04-1P
 78298-05-2P 78298-06-3P 78298-07-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with phosphorus pentasulfide)

RN 78001-36-2 HCAPLUS

CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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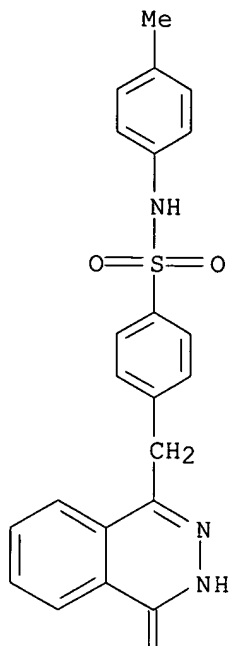


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RN 78001-37-3 HCAPLUS
 CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

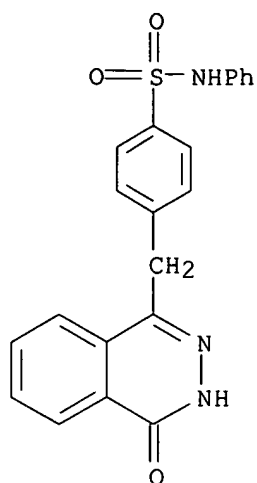
PAGE 1-A



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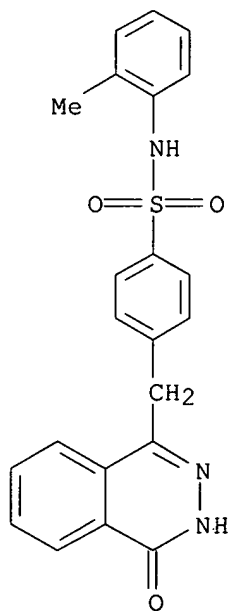


RN 78298-01-8 HCAPLUS
 CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-phenyl- (9CI) (CA INDEX NAME)



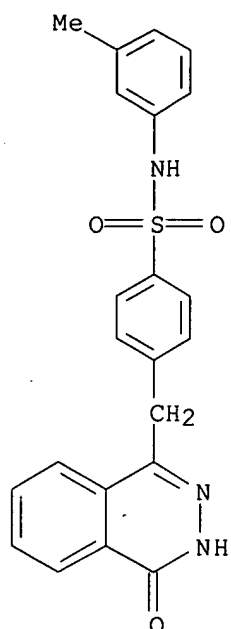
RN 78298-02-9 HCAPLUS

CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)



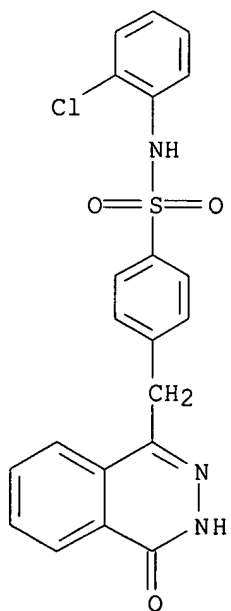
RN 78298-03-0 HCAPLUS

CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 78298-04-1 HCAPLUS

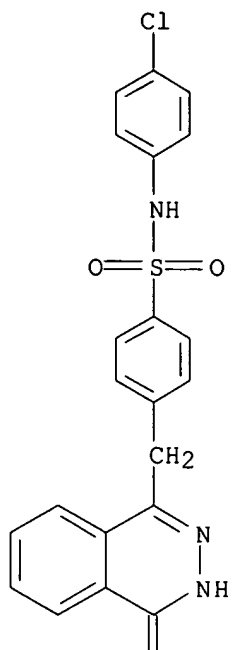
CN Benzenesulfonamide, N-(2-chlorophenyl)-4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]- (9CI) (CA INDEX NAME)



RN 78298-05-2 HCAPLUS

CN Benzenesulfonamide, N-(4-chlorophenyl)-4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]- (9CI) (CA INDEX NAME)

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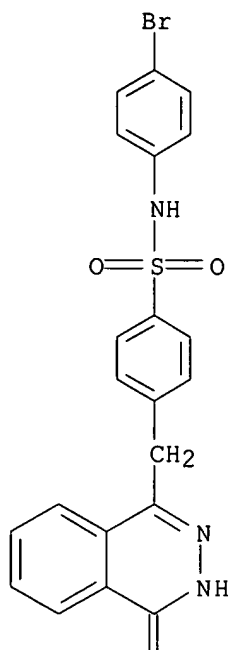


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RN 78298-06-3 HCAPLUS
CN Benzenesulfonamide, N-(4-bromophenyl)-4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]- (9CI) (CA INDEX NAME)

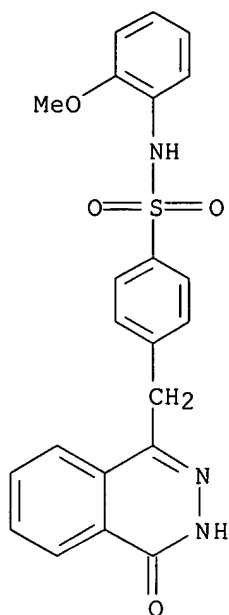
PAGE 1-A



PAGE 2-A



RN 78298-07-4 HCAPLUS
CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



L67 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:460757 HCAPLUS

DOCUMENT NUMBER: 95:60757

TITLE: Proton magnetic resonance spectra of some
p-(N-arylsulfamido)phenylacetic acids and
4-(p-N-arylsulfamido)benzylphthalazones

AUTHOR(S): Islam, A. M.; Ibrahim, E. H.; El-Maghraby, A. A.; Aly,
F. M.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

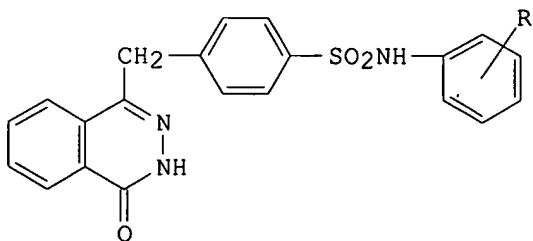
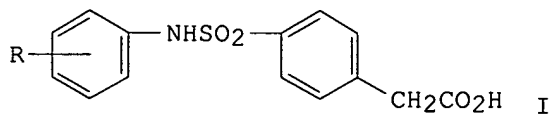
SOURCE: Egyptian Journal of Chemistry (1980), Volume Date
1979, 22(5), 389-92

CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

LANGUAGE: English

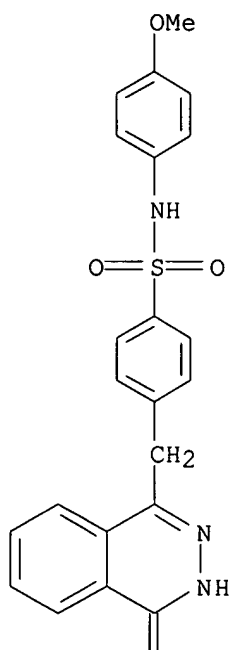
GI



II

AB The ¹H NMR of title compds. I (R = m-Me, p-MeO, p-Br, p-Cl) and II (p-MeO, p-Me) were compared.
 IT 78001-36-2 78001-37-3
 RL: PRP (Properties)
 (NMR of)
 RN 78001-36-2 HCAPLUS
 CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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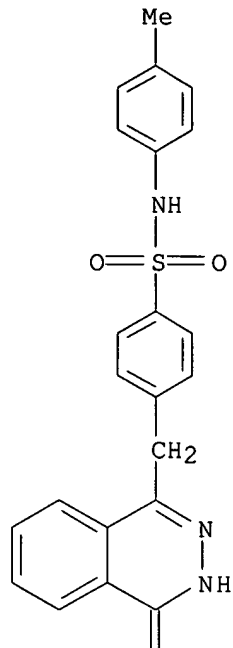


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RN 78001-37-3 HCAPLUS
 CN Benzenesulfonamide, 4-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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	E MARTIN NIAL/ AU
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L3	3 S E4
	E SMITH GRAEME/AU
L4	76 S E3 OR E7-E11
	E WHITE C/AU
L5	31 S E39 OR E113 OR E143 OR E145
	E NEWTON R/AU
L6	178 S E9 OR E67 OR E68
	E DOUGLAS D/AU
L7	10 S E9 OR E48
	E EVERSLEY P/AU
L8	4 S E4 OR E5
L9	19 S VILE J?/AU

L10 311 S L1-L9
L11 5 S L10 AND PHTHALAZINONE?

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L34 16 S C25H18F3N3O4/MF
L35 167 S C21H14N4O3/MF
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L61 1611 S C17H15N3O3/MF
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L65 39 S L21 AND (L27-L64)

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L67 5 S L66 NOT PY>=2000